

ABSTRACT OF THE DISCLOSURE

The present invention disclose a method for fabricating planar reference electrodes. Particularly, the present invention relates to the planar reference electrode comprising plate (4); electrode connection (1); electrode (3); insulating membrane (2); inner reference solution (5); junction (7 or 9); and protecting membrane (6, 8 or 9), and processes for fabrication thereof, in which the junction is composed of porous material such as cotton thread, glass fiber, cellulose nitrate, cellulose acetate, filter paper and any material that can produce capillary action; porous polymer membrane; or a capillary either directly printed on the substrate or inserted with a thin film. The planar reference electrode of the present invention exhibit stable electric potential and short activation period, and may be used in both potentiometry and voltammetry. The planar reference electrodes of the present invention can be easily miniaturized and mass produced.